

**16.** The computer program product of claim 15, wherein the instructions to validate the language-dependent program cause the data processing equipment to:

extract language elements from the script code section;  
and

compare the extracted language elements with the definition module.

**17.** The computer program product of claim 16 wherein the instructions to extract the language elements cause the data processing equipment to generate a symbol table from the script code section.

**18.** The computer program product of claim 15, wherein the instructions to generate the language-dependent program cause the data processing equipment to:

generate language-dependent code comprising an interface and a class.

**19.** The computer program product of claim 15 wherein the instructions to validate the language-dependent program cause the data processing equipment to:

extract language elements from the script code section;

compare the extracted language elements with the definition module;

generate language-dependent code comprising an interface and a class; and

compile the interface and the class.

**20.** A computer program product, tangibly embodied in an information carrier, the computer program product comprising instructions operable to cause data processing equipment to:

receive a language-independent description of a computer program, the language-independent description comprising a definition module and an implementation module;

validate the language-independent description;

generate a first language-dependent program from the language-independent description, the first language-dependent program comprising a first script code section;

generate a second language-dependent program from the language-dependent description, the second language-dependent program comprising a second script code section of a distinct, second kind;

extract a first set of language elements from the first script code section;

extract a second set of language elements from the second script code section; and

compare the first set of language elements and the second set of language elements with the definition module.

**21.** An apparatus, comprising:

means for receiving a language-independent description of a computer program, the language-independent description comprising a definition module and an implementation module;

means for validating the language-independent description;

means for generating a language-dependent program from the language-independent description, the language-dependent program comprising an interface and a class; and

means for validating the language-dependent program.

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